

Remarks

In reference to the drawing objections, the features described in Claim 5 and Claim 6 are shown in Figures 7 and 8. Numbers 32 and 34 were intended to show the axial dimension variation of each scroll sub-section and the different degree of axial variation between each scroll sub-section. Figures 7 and 8 are described in paragraph 4 of "Description of the Preferred Embodiments of the Invention". Provisional drawing changes are enclosed which address the issues with Figure 1 and Figure 3.

In reference to specification objections, the objection to Claim 20 is deemed moot in view of the proposed claim cancellation listed above.

In reference to claim rejections, Claim 1 has been amended extensively above to better distinguish over the art of record.

With regard to Williams 2,330,938 in particular, Claim 1 now calls for "different and independently optimized expansion angles" and a partition "substantially completely surrounding the periphery of the centrifugal impeller." Only with this combination of elements can a single inlet impeller efficiently supply two or more different flow systems with different system pressures. Williams '938 employs width variations only in his scroll to adapt to different flow system pressures. Williams also teaches a specific location for his partition with respect to his impeller backplate. It is respectfully submitted that Williams neither anticipates, nor renders it obvious, that the combination of partition design and placement and individually optimized scroll expansion is necessary for the most efficient use of a single impeller to supply two or more different flow systems with different system pressures.

Gage, 244,993, discloses a double inlet impeller and is not deemed relevant.

Japanese, 61-347899, is directed to noise reduction and does not address multiple flow systems with differing system pressures. The partition in this patent does not encircle the impeller.

Japanese, 58-101297, discloses a double inlet fan and is not deemed relevant. The two housing are merely joined for low cost assembly.

Swiss, 132,105, discloses two discrete impeller sections which share a common inlet. There is no discussion regarding different scroll expansions.

This application is now deemed to be in condition for allowance and such action is earnestly solicited.

Respectfully submitted,
HAUGEN LAW FIRM PLLP

A handwritten signature in dark ink, appearing to read 'M J Burns', is positioned above the typed name.

Mark J. Burns, Reg. #46591
Attorney for Applicant
1130 TCF Tower
121 South Eighth Street
Minneapolis, MN 55402
Phone: (612) 339-8300